Radiation of antenna ...

P/019/62/011/004/001/010 D271/D308

cients are used in the polynomial representation of field distribution in the aperture. The danger of solutions leading to ultragain is stressed. There are 6 figures.

ASSOCIATION: Zakład Teorii Łączności IPPT PAN (Department of Tele-communication Theory, IPPT PAS)

SUBMITTED:

May 21, 1962

Card 3/3

P/019/62/011/004/002/010 D271/D308

AUTHOR:

Szulkin, P.

TITLE:

Amplitude stability criteria in systems with two de-

grees of freedom

PERIODICAL: Archiwum Elektrotechniki, v. 11, no. 4, 1962, 721-739

TEXT: Amplitude stability criteria of two simultaneous oscillations are derived from energy considerations and applied to nonlinear systems described by fourth- or fifth-order characteristics. Current superposition is used assuming quasi-linearity of the system. Impedances of two constituent oscillating circuits are regrouped in such a manner that at each frequency energy is concentrated in one circuit only. Dissipated power as a function of oscillation amplitudes (A, B) is represented by a surface in A, B, P space. When power supplied by a nonlinear source is represented by another surface in the same space, the intersection lines of both surfaces correspond to possible oscillation amplitudes in balanced state. The nonlinear element of the considered system with two degrees of

Card 1/4

Amplitude stability criteria ...

P/019/62/011/004/002/010 D271/D308

freedom is described by a fourth-order polynomial v = f(i), with coefficients $\alpha, \beta, \gamma, \eta$ and an expression is derived for the power P which corresponds to the simultaneous existence of both oscillations:

$$P = P_1 + P_2 - \frac{3}{8} \gamma A^2 B^2$$
 (17)

where P_1 and P_2 are powers associated with one frequency in the absence of the other. Even when it is assumed to be valid for currents, the superposition principle cannot be applied to energy. The stability condition of the oscillation amplitude B is $-R_2 > \alpha$, where R_2 is the resistive component of the linear circuit connected to the nonlinear element at the oscillation frequency B. Similarly, the stability criterion for A is $-R_1 > \alpha$. These conditions are valid when only one oscillation occurs at a time. For stable amplitudes of simultaneous oscillations the expressions are:

Card 2/4

CIA-RDP86-00513R001754610005-2

Amplitude stability criteria ...

P/019/62/011/004/002/010 D271/D308

$$A_s^2 = \frac{1}{3} (2B_m^2 - A_m^2)$$
 (27)

$$B_s^2 = \frac{1}{3} (2A_m^2 - B_m^2)$$
 (28)

where the indices m refer to singly occurring oscillations. The comparison of powers supplied by the nonlinear and dissipated element produces an equation of pairs (A, B) which are amplitudes in balanced states. If there is no energy exchange between the two oscillations, the only possible solution is that with stable amplitudes. When energy exchange occurs, two-frequency operation is possible but there is no question then of stationary conditions. Stability conditions are finally expressed in the form of inequalities involving the dependence of frequency on the amplitude of oscillations, values of stable amplitudes, loss resistance and

Card 3/4

P/019/62/011/004/002/010 D271/D308

Amplitude stability criteria ...

and logarithmic decrements of the linear circuit at frequencies considered. The case of the fifth-order characteristic of the nonlinear element is also analyzed. There are 3 figures.

Zakład Teorii Łączności IPPT PAN (Department of Tele-communication Theory, IPPT, PAS) ASSOCIATION:

SUBMITTED: July 23, 1962

Card 4/4

OSIOWSKI, Jerzy; SZULKIN, Pawel

Certain problems of dynamics of relays of optimalizing control systems. Archiv automat 8 no.123-26 '63.

l. Instytut Podstawowych Problemow Techniki, Polska Akademia Nauk, Zaklad Teorii Lacznosci, Warszawa.

9,2580

P/052/62/000/002/001/602 D271/D308

AUTHOR:

Szulkin, Pawel

TITLE:

Some conclusions from the theory of synchronization

by a continuous wave of constant frequency

SOURCE:

Prace Instytutu Kaczności, no. 2, 1962, 3-18

The time constant of the synchronizing process, its TEAT: dependence on the locking band width and the influence of the syn-chronizing signal on the locked oscillations are analyzed. The locking signal is assumed to be applied in series to the grid of the oscillator tube. The amplitude of oscillations is determined as the point of intersection of the non-linear characteristic of the tube $V_a = f(V_g)$ and the line $V_a = f(V_l \cos \phi)$ which represents the transfer function of a linear quadripole where V_1 is the geometric difference of V_g and V_s and ϕ is the angle between V_1 and V_g . The condition of the sum of the su tion of locking is that V_1 , V_s , V_g form a closed triangle; this is an extension of the Barkhausen criterion for a tube oscillator. In Card 1/4

P/052/62/000/002/001/002 D271/D308

Some conclusions from the theory ...

the case of a single tubed circuit the width of locking band is A more general picture of synchronization is obtained by \overline{Q} $\overline{V_g}$ the use of modified Aller's method (PLRE, v. 34, 1946, 351) assuming

 $V_s \ll V_g$ and ϕ to be small and linearly varying with frequency. Introducing ψ , such that $\psi = \frac{v_s}{v_g} \sin \psi$, an equation is derived

 $\frac{d\Psi}{dt} = \Omega_{s} - \Omega_{o} \sin \Psi.$ (9)

where Ω_s is the difference between cynchronizing and free oscillation frequency and Ω_o - half-width of the synchronizing band. In the case of locking, $\frac{d\psi}{dt} = 0$ and

 $\sin \Psi = \frac{\int \partial s}{\int \partial s}$

Equation (10) is discussed for $\Omega_s < \Omega_o$ and $\Omega_s > \Omega_o$. Card 2/4

F/052/62/000/002/001/002 D271/D308

Some conclusions from the theory ...

first case, a time constant is introduced which is a measure of decay of the transitional state caused by the sudden application of the synchronizing signal; its dependence on Ω_{o} and $\Omega_{\mathrm{s}}/\Omega_{\mathrm{o}}$ is plotted. In the second case, where the synchronizing frequency is outside, but fairly close to, the synchronizing band, the oscillator is frequency modulated and its center frequency moves towards the synchronizing frequency. Another method of injecting the locking signal is considered in which synchronizing current flows into the oscillator circuit represented as a parallel connection of L, R, C and a negative resistance. Equation (9) is also proved to be valid for this case. Amplitude modulation of locked oscillations depends on the amplitude and frequency of the locking signal, and expressions are derived for this dependence, as well as for the frequency dependence of the oscillator transfer function. The locking band width depends on the amplitude of the signal as do the oscillator time constant and its reaction to changes in the synchronizing frequency. An equation is given which characterizes the oscillator frequency as a function of amplitude variations. There are 10 figures.

Card 3/4

	Some conclusions	from the	theory	P/052/62/000/002/001/002 D271/D308
	SUBMITTED:	June 24,	1961	
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	Card 4/4			

5/194/62/000/012/101/101 D271/D308

AUTHOR:

Szulkin, Paweł

TITLE:

Variational methods for calculating discontinuities

in coaxial cables

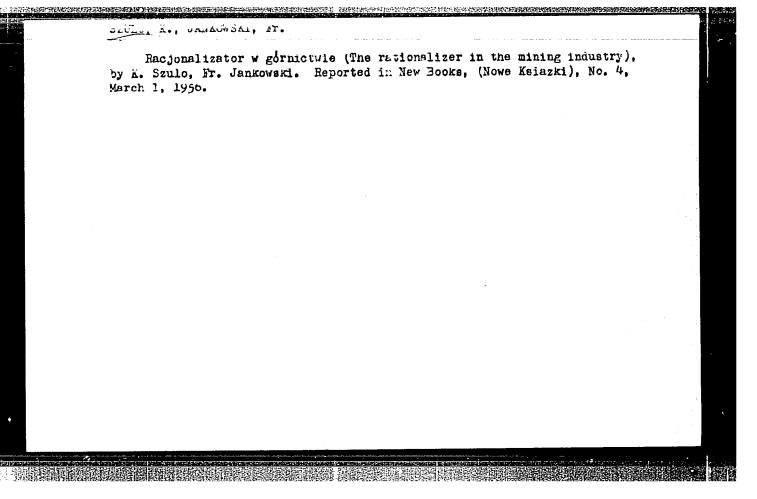
PERIODICAL:

Referativnyy zhurnal, Avtomatika i radioelekt onika. no. 12, 1962, 26, abstract 12-8-51 r (Rozpr. elektrotechn., v. 7, no. 3, 1961, 365-379 (Pol.; summaries

in Rus. and Eng.))

TEXT: A variational method is used in the investigation of discontinuous (plane) inhomogeneities in coaxial cables. An integral equation for the admittance is derived by solving Maxwell's equations. It is shown that, in the case of TEM waves, it is possible to represent accurately a lumped discontinuity by a lumped capacitance. As an example, the discontinuities are considered in a coaxial cable which are due to an abrupt change of the diameter of the inner conductor and of the shield. 4 references. / Abstracter's __note: Complete translation. /

Card 1/1



B. T. R.

Vol. 3 No. 4

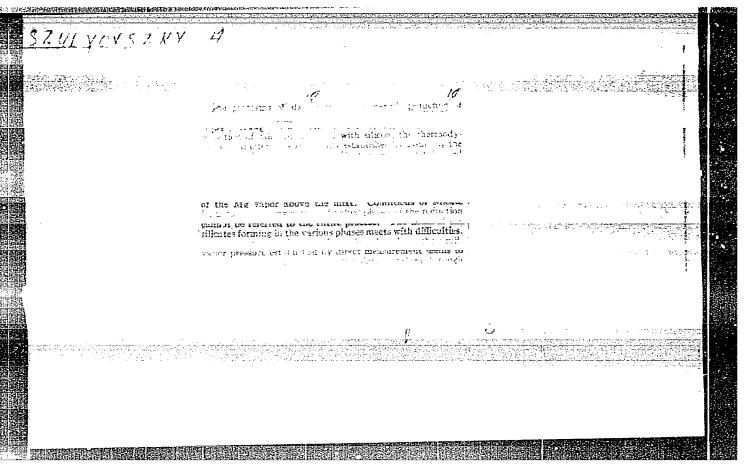
Apr. 1954

Metals-Extraction and Refining

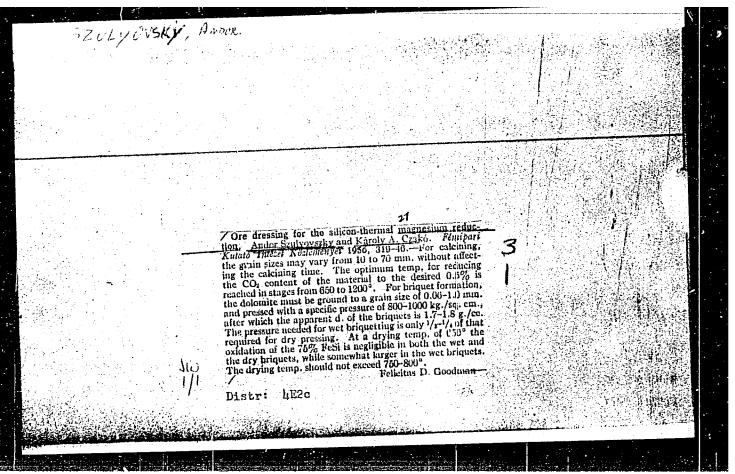
Apr. 1964

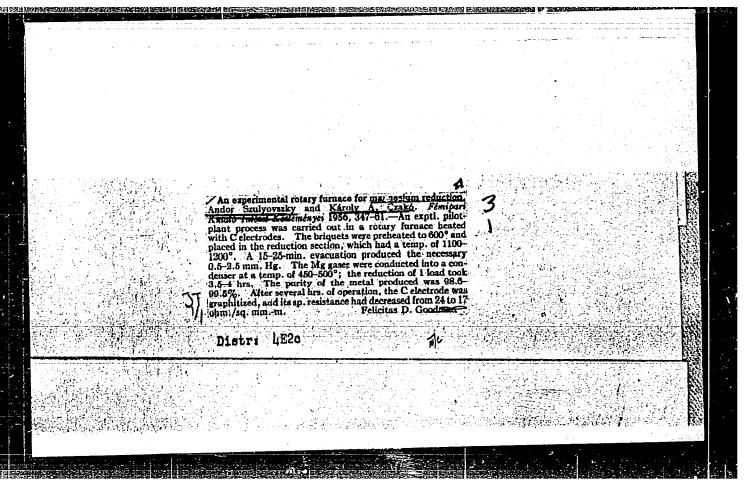
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	degg* New Data on Ore Property of the American Metallurgy. Ujabb as a mank character of the Carlo of the Carl	eparation in Silicon-Thermal Madatok a szilikotermikus mag éhez. (Hungarian.) Andor Szu ihászati lapok, v. 10, no. 4, S dolomite; equipment; briquett	rice lyo- cpt: 1/10 ing.		
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	/699* New Data on Ore Pre- nesium Metallurgy. Ujabb a zumukohaszat creelőkézítésé vszky and Károly Czakó. Ko -1955; p. 413-419. Crushing and calcining of c Tables, graphs. 12 ref.	eparation in Silicon-Inermal Madaok a szilikofermikus magehez. (Hungarian.) Andor Szulhátzati lapok, v. 10, 100, 100, 100, 100, 100, 100, 100,	ing.		





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SZULYO/SZMY, A.

Possibilities of the development of the thermometallursy of magnesium. p. 66. (KOHASZATT LAFOK. Vol. 12, no. 1/2, Jan/Feb. 1957, Eudapest, Hungary)

SO: Monthly List of East European Accessions (MEAL) LC. Vol. 6, no. 12, Bec. 1957. Uncl.

3/081/62/000/003/044/090 B156/B101

Szulyovszky, Andor, Legát, Tibor AUTHORS:

High-purity selenium produced by vacuum distillation TITLE:

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 3, 1962, 356, abstract 3K54 (Fémipari kutató int. k8 zl., v. 4, 1960,

363-370, 404, 416, 417, 427)

TEXT: The ideal conditions for the process have been found (400 °C, 0.5 mm Hg), and industrial equipment has been produced. Abstracter's note: Complete translation.

Card 1/1

CIA-RDP86-00513R001754610005-2" APPROVED FOR RELEASE: 07/13/2001

为一个人,不是一个人,不是一个人,不是一个人,不是一个人,不是一个人,他们就是一个人的人,也是一个人的人的人,也是一个人的人,也是一个人的人,也是一个人的人,也

SHULYOVSEKY, Ander, tudemanyos kutato; BAUMANN, Sandor, terveze

Silicothermal magnesium refining furnaces and their operation. Keh lap 97 no. 2:88-93 F $^{+}64$.

1. Research Institute of the Metal Industry, Budapest (for Saulyovszky). 2. Aluminum Industry Designing Enterprise, Budapest (for Baumann).

ORG; none

TITLE: Development of an oil diffusion pump with a delivery rate of 125 1/sec [Awarded 1st prize at the 1985: 664g/200 struc GIA: RDR06:06513R061754610005-2" tion, sponsored by Finommechanika]

SOURCE: Finommechanika, no. 1, 1967, 7-10

TOPIC TAGS: diffusion pump, pump, oil backflow

ABSTRACT: The paper described the first of a series of diffusion pumps developed jointly by the Central Research Institute for Physics and the United Incandescent Company and assembled by Elekthermax. The design and dimensional data are given and measurement values concerning ultimate pressure and suction speed of the prototype are presented. A method is also suggested for computing the quantity of oil back-flow. Orig. art. has: 7 figures. [Authors' abstract]

SUB CODE: 13/SUBM DATE: none/SOV REF: 001/OTH REF: 008/

Card 1/1

SZUMAKOWICZ, J.

Properties of refractories from fire clay burned at a low temperature.

P. 29 (BUDOWNICTWO PRZEMYSLOWE) Poland, Vol. 6, No. 1, 1956

SO: Monthly Index of East European Accessions (AEEI) Vol. 6, No. 11, November 1957

SZUMAN, JERZY.

Szuman, Jerzy. - Badania nad przejawami rui i ciazy u krolic. Studies on the symptoms of heat and pregancy in rabbits. Krakow, Nakl. Polskiej Akademii Umiejetnosci, 1952. 59 p. (Prace rolniczo-lesne, nr. 65) / English and Russian summaries. illus., bibl., tables/

SO: Monthly List of East European Accessions, L.C., Vol. 3, No. 4, April, 1954

SZUMAM, Jerzy SUMNAME, Given Names

Country: Poland

Academic Degrees: Prof. Dr.

Affiliation: Inot given 7

Source: Warsaw, Medycyna Weterynaryjna, Vol XVII, No 7, July 1961,

pp 435-437.

Data: "Possibilities of Arranging the Copulation Season of the Polar Foxes without Trial Mating of the Pairs."

SZUMAN, Jerzy; GORSKI, Lech; LUBAWA, Urszula

CHRONDOCTOR CONTRACTOR CONTRACTOR

Influence of the season upon the growth rate of goose feathers. Roczniki Wyz Szkola Rol Poznan no.12:79-95 162.

1. Zaklad Hodowli Drobiu i Zwierzat Futerkowych, Wyzsza Szkola Rolnicza, i Pranzowe Laboratorium Badawcze Przemyslu Jajczarsko-Brobiarskiego, Poznan.

SZUMAN, Jerzy; SOKOLOWSKI, Waclaw-

Bibliography of works of the scientific staff of the Department of Zootechny of the School of Agriculture in Poznan for the years 1958-1961. Roczniki Wyz Szkola Rol Poznan no.12:257-275 162.

1. Wyzsza Szkola Rolnicza, Posnap.

DORUCHOWSKI, Wojciech; SZUMAN, Jerzy

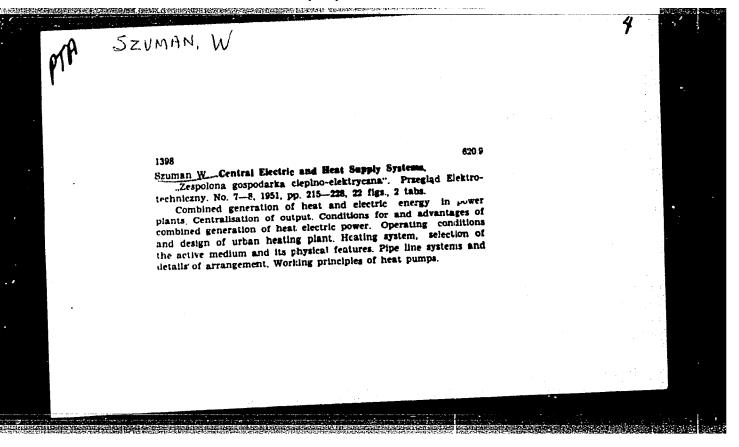
Development of the plumery in growing ducks and its dependence on their growing rate and way of being fed. Roozniki wyz szkola rol Poznan 17:3-19 '63.

1. Department of Specific Animal Breeding, College of Agriculture and Central Laboratory of the Egg and Poultry Industry.

SZUMAN, Jerzy; DORUCHOWSKI, Wojciech; LUBAWA, Urszulı

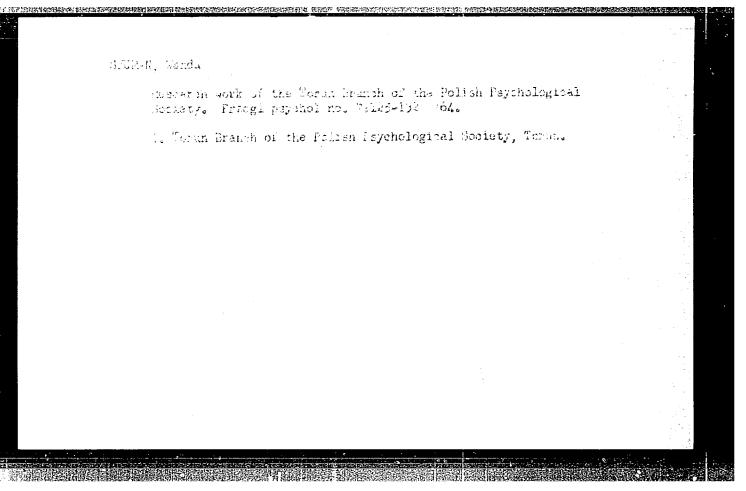
Evaluation of mashes produced by the Polish Godder industry for feeding proilers. Roczniki wyz szkola rol Polish 17:209-224 163.

1. Department of Specific Animal Breeding, College of Agriculture, Poznan, and Central Laboratory of the Egg and Poultry Industry, Poznan.



SZUMAN, W.

Urządzenia pomonicze elektrowni cieplnych (Auxiliary installations of thermal power plants), by W. Szuman. Reported in New Books, (Nowe Ksizaki), No. 6, March 15, 1956.



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KORANYI, Gyorgy, dr.; WUNSCH, Walter, Dr. ing.; OECHELHAUSER, Kurt; PUTNOKY, Janos; SOMHEGYI, Karoly; SZUMAN, Witold; VALY, Ferenc, dr.; DOBO, Laszlo; NAGY BIRO, Sandor; VIDA, Miklos; TOBAK, Lajos; MAKOLDI, Mihaly; NASZALYI, Laszlo; HUNEK, Emil

Technical and economic questions relating to gas utilization. Ipari energia 3 no.1/2:9-14 Ja-F '62.

1. Fovarosi Gazmuvek muszaki igazgatoja (for Valy).

SZUMAN, Witold, doc. mgr inz.

Power problems in industrial enterprises. Gosp paliw 11 no.1: 8-11 Je 163.

1. Katedra Elektrowni i Elektroenergetyki, Politechnia, Warszawa.

SZUMAN, Witcld, doc.

The Turbogenerator Conference in Breslau, October 19-22, 1964. Przegl elektrotechn 41 no.4:151-152 Ap '65.

1. Scientific Secretary of the Committee for Electrical Engineering of the Polish Academy of Sciences, Warsaw.

SZUMANKOWICZ, Je zy

An attempt to determin the most suitable porosity of grog obtained by baking fireproof clays. Ceraminka 32 no.4:39-46 161.

1. Katedra Technologii Materialow Ogniotrwalych Akademii Gorniczo-Hutniczej, Krakow.

SZUMANSKA, Witoslawa

The three International Speleological Congress in Vienna, Obertraun, Salzburg (Austria). Przegl geol 10 no. 4/5:240-241. Ap-My ¹62

1. Politećhnika, Warszawa.

SZUMANSKI, E.; WRZESNIOWSKI, Z.

Semitechnical researches. p. 24.

BUDOWNICTWO WIEJSKIE. (Ministerstwo Rolictwa i Ministerstwo Panstwowych Godpodarstw Polynch.) Warzawa, Poland. Vol. 2, no. 3, March 1959

Monthly list of Fast European Accessions (EEAI) LC Vol. 8, no. 8, Aug. 1959 Uncl.

POLAND/Chemical Technology. Chemical Products and Their Application, Part 4. - Dyeing and Chemical

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Treatment of Textile Materials.

Abs Jour: Referat. Zhurnal Khimiya, No 21, 1958, 72789.

Author : J. Szunerowski.

Inst : "Inst. wlokiennictwa"

Title : Determination of Fire Resistivity of Textile Products.

Orig Pub: Przem. włókienniczy, 1957, 11, No 11, Biul. inst.

wlokiennictwa, 9, No 11, 22.

Abstract: It is recommended to use two methods of testing:

1/ a strip of fabric 25 x 5 cm large is suspended vertically in a cupboard in order to protect it from draft and kindled 12 sec. at a distance of 2 cm above the opening of a Bunsen burner by a luminous flame 2 cm high. The fire resistivity is determined

Card : 1/2

SZUMEN, W

(PRZEGLAD ELEKTROTECHNICZNY, Vol. 27, No. 7/8, Warszawa, Poland, Aug. 1951 "Power and heat supply in Czechoslovakia." p. 252.

SO: MONTHLY LIST OF EAST EUROPEAN ACCESSIONS, L.C., Vol. 3, No. 4, APRIL 1954

SZUMIFC, Jan, mer inz.

Influence of above water vegetation and the method of mowing it on the bottom fauna of fishponds. Acta hydrobiol 5 no.4:315-335 163.

1. Zespol Gospodarstw Poswiadczalnych Ochaby, Zaklad Biologii Vod. Folska Akademia Nauk, Ochaby pow. Cieszyn.

SZUMIEC, Maria

Preliminary measurements of the radiation intensity in lakes. Acta hydrobiol 3 no.2/3:133-142 161.

1. Zaklad Biologii Wod, Polska Akademia Nauk, Gospodarstwo Doswiadczalne Ochaby, poczta Skoczow.

SZUMIEC, Maria

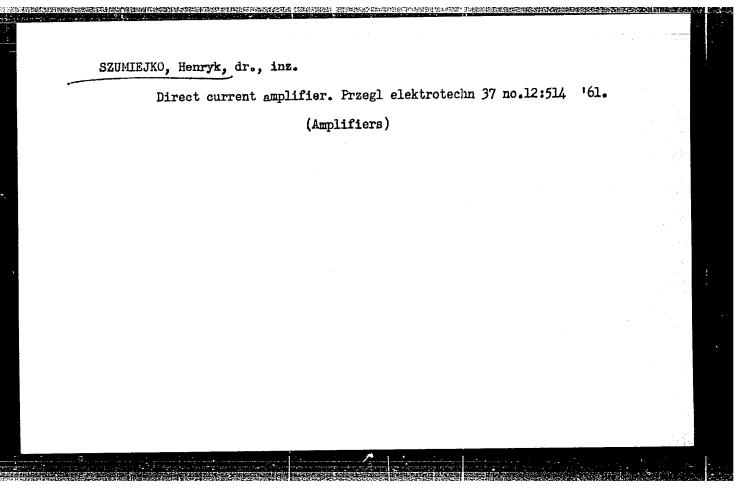
Time-space temperature distribution in the lowest air layers over water and soil. Przegl geofiz 7 no.3:157-167 '62.

1. Zaklad Biologii Wod, Polska Akademia Nauk, Ochaby.

SZUMIRO, Mazia, mar.

The modynamic characteristics of very rearing gonds. Sola hydrobiol because 42-60 255

l. Twapel Gespedametw Possiadorsingon Schaby, Sakkad Biologii Wed, Polska Akademia Mauk, Sahaby, powlat Massayn.



SZUMIEJKO, Henryk, dr.,irz.

Universal transistor amplifier. Przel elektrotechn 37 no.12:
514 '61.

40932

P/021/62/000/010/001/001 D289/D308

9.2560

AUTHORS:

Szumiejko, Henryk, Doctor of Engineering,

Michałowski, Wiesław, Master of Engineering

TITLE:

Amplifier stage using electronic tube and a

transistor for control amplifiers

PERIODICAL:

Przeglad elektrotechniczny, no. 10, 1962,

417 - 418

TEXT: The circuit described is intended for applications where one high voltage supply is available. An electronic tube operating in grounded grid configuration contains a transistor as its cathode resistance. Suitable choice of tube and transistor depends on the amplifier output parameters. The choice of transistor is limited by the conditions $I_{kmax} \leftarrow E_{adm}$ and

 $v_k \leftarrow v_{KEadm}$, where I_k , v_k -- cathode current and voltage respectively, I_{Eadm} -- admissible emitter current; v_{KEadm} -- admissible

Card 1/2

P/021/62/000/010/001/001 D289/D308

Amplifier stage using ...

collector-to-emitter voltage. If the above voltage relation is not satisfied a resistance in emitter or collector circuit may be used. An example is given using a tube type EF80 and transistor type TG5 where, with anode load of 100 k Ω and V_a = 300 V, maximum cathode current is 3 mA \leq $I_{\rm KE}$. It is concluded that any low power surface barrier transistor of Polish manufacture may be used with the EF80 tube and transistors TG50-52 are suitable for EL series tubes, e.g. EL83. The choice of operating point for the tube is determined by the choice of anode resistance or load and linearity, that of the transistor by base-emitter bias for a given emitter current. The choice of transistor maximum voltage is determined by the emitter and base resistances and their relation to the impedance of input signal source. D.C. and A.C. (frequency and phase) characteristics are tabulated. There are 2 figures and 4 tables.

ASSOCIATION:

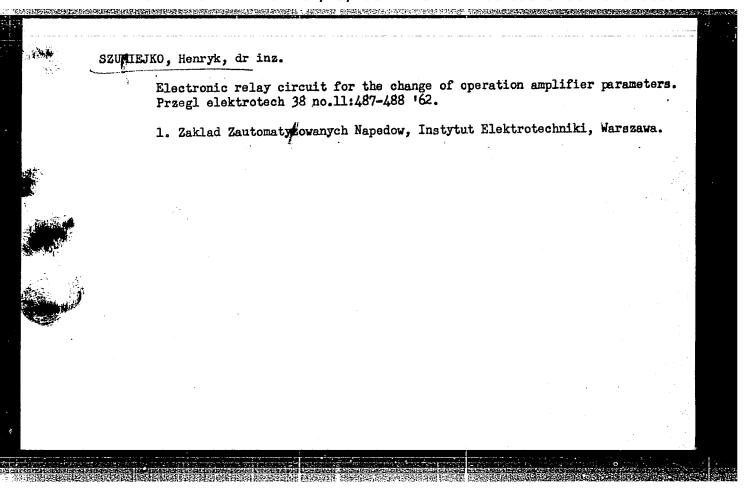
Instytut Elektrotechniki, Zakład Zautomatyzowanych Napędów (Institute of Electrical Technology, Department of Automated Drives)

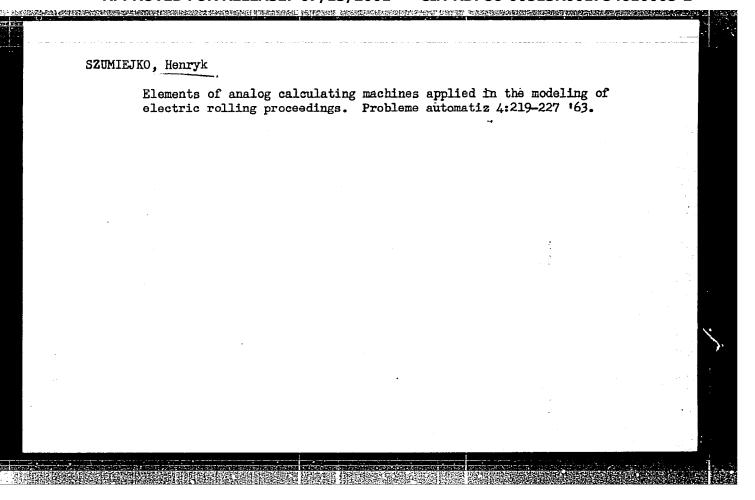
Card 2/2

SZUMIEJKO, Henryk, dr. inz.

An electronic multiplying system. Przegl elektrotechn 38 no.5:220. 162.

1. Zaklad Zautomatyzowanych Napedow, Instytut Elektrotechniki, Warszawa.

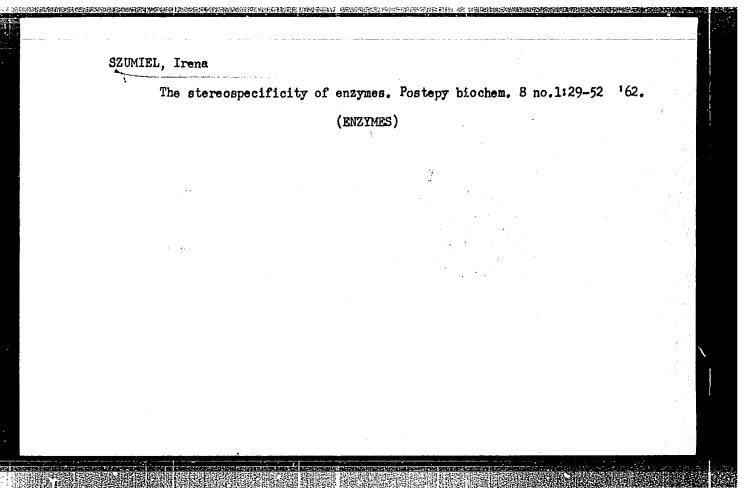


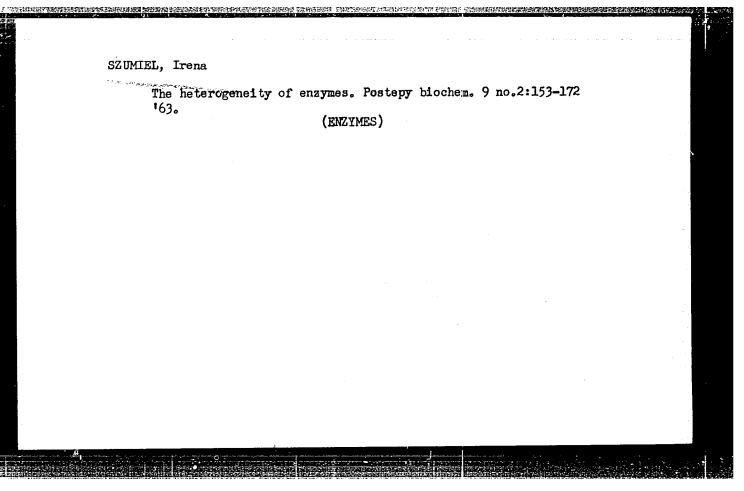


CHMIELEWSKA, I.; TOCZKO, K.; KANIUGA, Z.; SZUMIEL, I.

Utilization by the human organism of intravenously administered protein hydrolysates. IV. Urinary excretion of amino acids with blocked amino groups. Acta physiol pol 12 no.4:549-558 '61.

1. Z Katedry Biochemii Uniwersytetu Warszawskiego w Warszawie Kierownik: prof. dr I. Chmielewska. (PROTEIN HYDROLYSATES metab) (AMINO ACIDS urine)





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SZUMIEL, Irena

The mechanism of enzyme action. Postepy biochem. 11 no.2:119-144 '65.

SZUMIGAJ, Franciszek

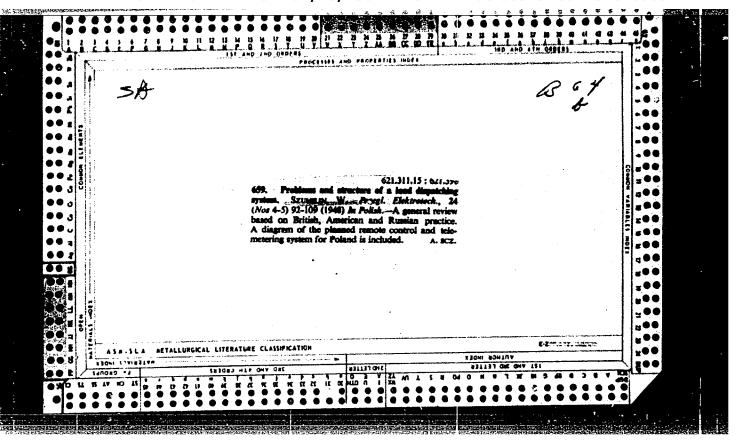
History of the psychiatric hospital in Swiecie on Vistula. Neur. &c. polska 6 no.1:126-128 Jan-Feb 56.

 Z Panstwowego Szpitala dla Merwowo i Psychicznie Chorych w Swieciu n/Wisla. Dyrektor: dr. med. Fr. Szumigaj. (HOSPITALS, PSYCHIATRIC, history, in Poland. (Pol))

SZUMILEWICZ, Irena, dr.

A symposium of philosophers in Denver, Colorado. Problemy 18 no.61439-441 '62.

SZUNICAS, Stanishow
Chemistry conquers foreign markets. Frzegl techn 85 no.23:4
7 Je *64
1. Ministry of Chemical Industry, Warsow.



SZUMILIN, W.

SZUMILIN, W. The development of alternating -current transmission systems of the highest voltage. P. 207.

Vol. 32, no. 5, May 1956 PRZEGLAD ELEKTROTECHNICZY TECHNOLOGY Warszawa, Poland

So: East European Accession, Vol. 6, no. 2, Feb. 1957

SZUMILIN, W.; KLARNER, T.; STRASZEWSKI, K.

11th Congress of the International Union of Producers and Distributors of electric Power, Lausanne 1958. Pt. 2 (to be cont.). p. 118

ENERGETYKA (Ministerstwo Gornictwa i Energetyki oraz Stowarzyszenie Elektrykow Polskich) Bytom, Poland. Vol. 13, no. h, Apr 1959

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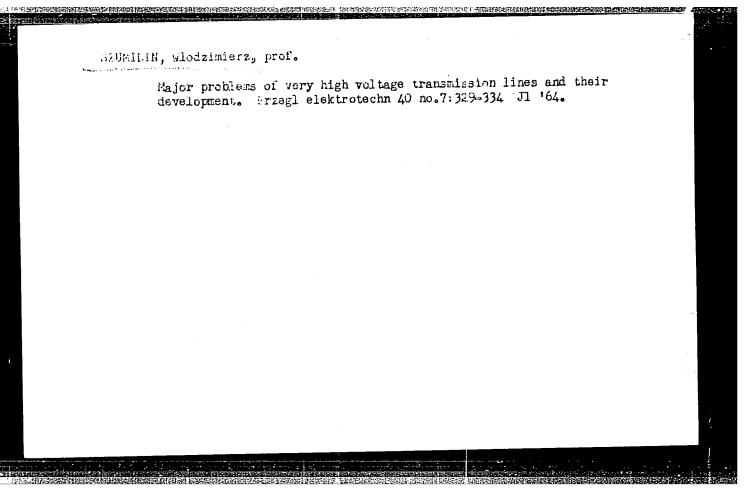
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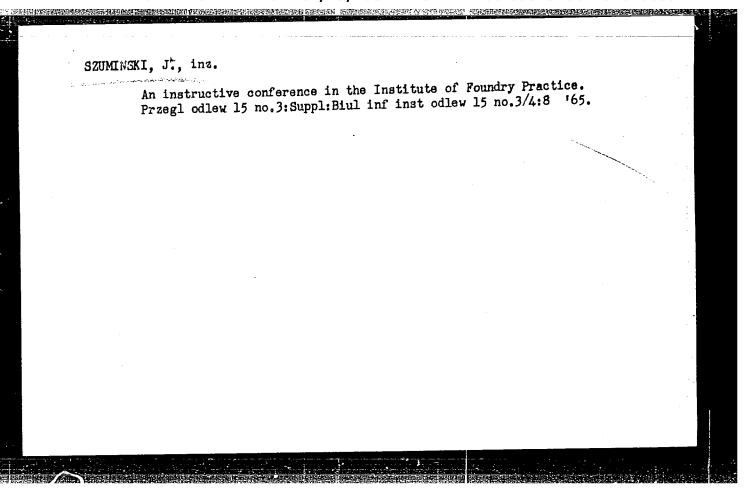
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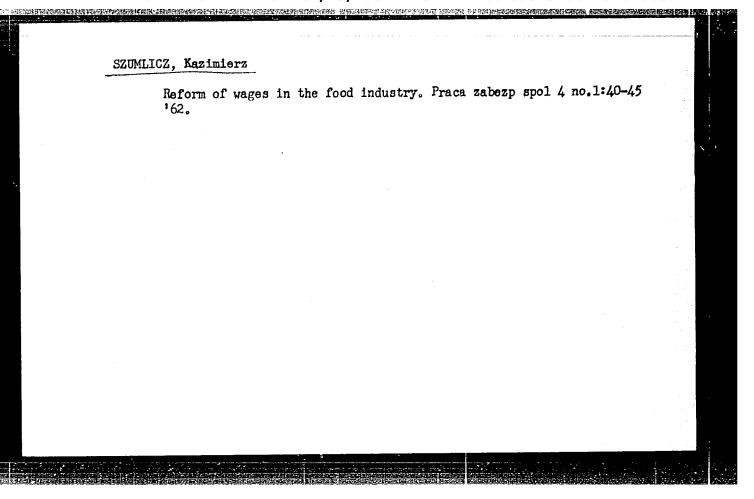
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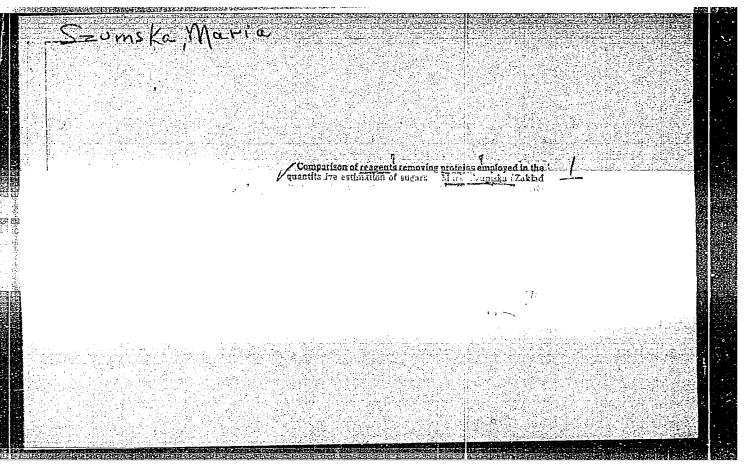
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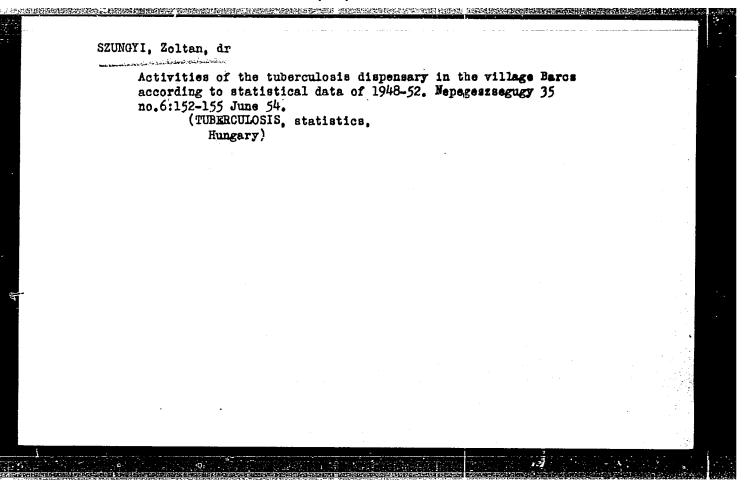
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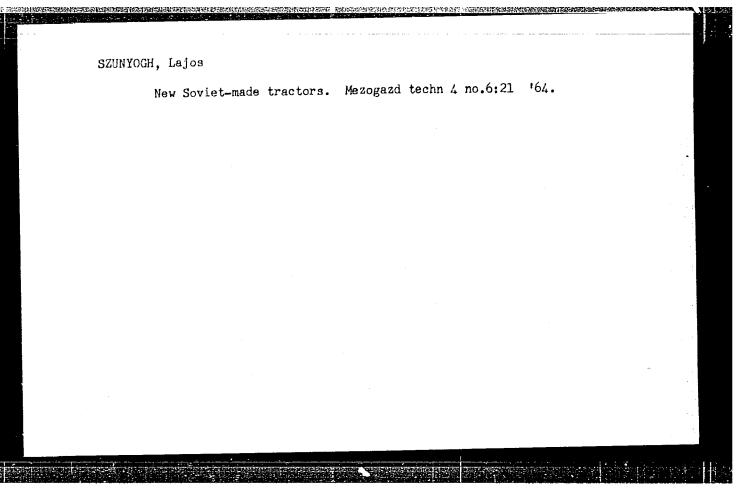
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